

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of Douglas F. Covey

Serial No. 10/007,450

Filed November 5, 2001

Confirmation No. 3348

For MODIFIED, HYDROXY-SUBSTITUTED AROMATIC STRUCTURES  
HAVING CYTOPROTECTIVE ACTIVITY

February 20, 2002

TO THE COMMISSIONER OF PATENTS AND TRADEMARKS,  
SIR:

**INFORMATION DISCLOSURE STATEMENT**

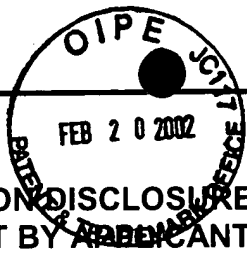
In accordance with 37 C.F.R. 1.97 and 1.98 and MPEP 609, and in compliance with the duty of disclosure set forth in 37 C.F.R. 1.56, applicant submits copies of references 1-25, 27-30, 32, 33, 35-38, 40-42 and 44-51 of the references listed on the attached PTO/SB/08A for consideration by the Patent and Trademark Office in the above-entitled application and to be made of record therein. Copies of references 26, 31, 34, 39, 43, 52 and 53 have been ordered but have not yet been received. We will supplement this Information Disclosure Statement with copies of these references as soon as they have been received.

Respectfully submitted,

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<b>PTO/SB/08A</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/007,450
				Filing Date	November 5, 2000
				Confirmation Number	3348
				First Named Inventor	Douglas F. Covey
				Group Art Unit	1614
				Examiner Name	#4
Sheet	1	of	5	Attorney Docket No.	WSHU 2036.1

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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
	1	3,472,885		Bucourt et al.	10-14-1969
	2	4,330,540		Zeelen	05-18-1982
	3	4,617,298		Bodor et al.	10-14-1986
	4	4,786,647		Simpkins et al.	11-22-1988
	5	5,554,601		Simpkins et al.	09-10-1996
	6	5,554,604		Bonfils et al.	10-10-1996
	7	5,679,668		Bonfils et al.	10-21-1997
	8	5,824,672		Simpkins et al.	10-20-1998
	9	5,843,934		Simpkins	12-01-1998
	10	5,859,001		Simpkins et al.	01-12-1999
	11	5,877,169		Simpkins	03-02-1999
	12	5,914,325		Droescher et al.	06-22-1999
	13	5,939,407		Landfield	08-17-1999
	14	5,972,923		Simpkins et al.	10-26-1999

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Sheet	2	of	5	Attorney Docket No.		WSHU 2036.1	

	15	6,197,833	B1	Simpkins et al.	03-06-2001
	16	6,207,658	B1	Simpkins et al.	03-27-2001
	17	6,265,147	B1	Mobley et al.	07-24-2001

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	T <sup>6</sup>
		Office	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)			
	18	CA	1 167 837		Akzo N.V.	05-22-1984	
	19	EP	0 069 424	B1	Akzo N.V.	01-12-1983	
	20	GB	1 298 587		American Home Products Corporation	12-06-1972	
	21	WO	95/13076	A1	JENAPHARM GMBH	05-18-1995	
	22	WO	97/03661	A1	University of Florida Research Foundation, Incorporated	02-06-1997	
	23	WO	99/26630	A1	University of Florida Research Foundation, Incorporated	06-03-1999	
	24	WO	00/63228	A1	Schering Aktiengesellschaft	10-26-2000	
	25	WO	01/10430	A2	University of Florida Research Foundation, Inc.	02-15-2001	

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### OTHER ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
	26	Akhter et al., Stroke, Vol. 25 (1994) p. 418.	
	27	A. ALLAIS et al. "3-(β-Dialkylaminoethoxy)estra-1,3,5(10)-trienes" Chemical Abstracts, Vol. 70, No. 25; Abstract No. 115418e (1969) p. 381.	
	28	K. BARNIKOL-OETTLER et al. "Preparation of Estradiol 3-methyl Ether" Chemical Abstracts, Vol. 160, No. 25, Abstract No. 106:214199c (1987).	
	29	C. BEHL et al. "17-βEstradiol Protects Neurons from Oxidative Stress-Induced Cell Death in vitro" Biochemical and Biophysical Research Communications, Vol. 216, No. 2 (1995) pp. 473-482.	
	30	G.C. BUZBY et al. "Totally Synthetic Steroid Hormones. XIII. The Chemical Resolution of Some Racemic Estrane, 13β-Ethylgonane, and 13β-n-Propylgonane Derivatives and the Preparation of Some Estrane and 13β-Ethylgonane Derivatives of Unnatural Configuration" Journal of Medicinal Chemistry, Vol. 10 (1967) pp. 199-204.	
	31	T. FAN et al. "ZYC-13, the enantiomer of 1,3,5(10)-estratriene 3-OL, exerts neuroprotective effects in vitro and in vivo" Presented at the 26th Soc. for Neuroscience Meeting, 11/4/00 to 11/9/00.	
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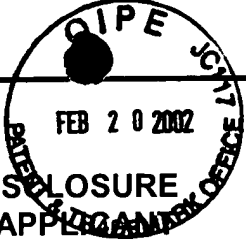
35	H. KANEKO et al. "The Synthesis of 2- and 4-Alkoxyethylestrogens" Chem. Pharm. Bull., Vol. 12, No. 2 (1964) pp. 196-203.	
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42	T. PATTON et al. "Estrogens. IV. The Synthesis of 2- and 4-Alkylestrones" Journal of Organic Chemistry, Vol. 27, No. 3 (1962) pp. 910-914.	
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45	W. ROMER et al. "Novel estrogens and their radical scavenging effects, iron-chelating, and total antioxidative actives: 17 $\alpha$ -substituted analogs of $\Delta^{9(11)}$ -dehydro-17 $\beta$ -estradiol" Steroids, Vol. 62 (1997) pp. 688-694.	

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	46	W. ROMER et al. "Novel "scavestrogens" and their radical scavenging effects, iron-chelating, and total antioxidative actives: $\Delta^{8,9}$ -dehydro derivatives of 17- $\alpha$ -estradiol and 17 $\beta$ -estradiol" Steroids, Vol. 62 (1997) pp. 304-310.	
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	48	A. SEELIG et al. "A method to determine the ability of drugs to diffuse through the blood-brain barrier" Proc. Natl. Acad. Sci. USA, Vol. 91 (1994) pp. 68-72.	
	49	L. TIETZE et al. "Synthesis of new 16-spirosteroids" Steroids, Vol. 59 (1994) pp. 305-309.	
	50	J. WILSON et al. "U83836E Reduces Secondary Brain Injury in a Rabbit Model of Cryogenic Trauma" Journal of Trauma, Vol. 39, No. 3 (1995) pp. 473-479.	
	51	A. WUNDERLI et al. "Geometry of the Activated Complex of the Thermal and Charge-Induced Aromatic Para to Ortho Claisen Rearrangement" Helvetica Chimica Acta, Vol. 56 (1973) pp. 989-1011.	
	52	S. XIA et al. "A Novel Estrogen Analog, Inactive at the Estrogen Receptor, is Neuroprotective" Presented at the 26th Soc. for Neuroscience Meeting, 11/4/00 to 11/9/00.	
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